PAGE

Calculation of Radiant Heat Absorption in a Furnace, by Irving Granet 319
Captain O'Shaugnessy—Business Man in Blue, by John A. Hack 109
Caughrean, Milo C., A Theory for Conserving Our Lost B.T.U.'s 271
Clarke, Frank E., Vanadium Ash Problems in Oil Fired Boilers 253
Coal—Fuel of the Future (Reprint) 312
Combination Propulsion Plants for Naval Vessels (Reprint) 681
Communist Potential, Production Engineering, by R. E. W. Harrison 243
Compartments, Testing for Tightness By Use of Compressed Air, by Ralph E. McShane 145
Conserving Our Lost B.T.U.'s, by Milo C. Caughrean 271
Consideration of the Phenomenon of Static Electricity, by Carl J. Lamb and C. R. Rowe 425
Cycloidal Propulsion, A New Use For, and Radical Departure in the Conventional Tugboat Design, by W. E. Fuller 630
Day, Besse B., Use of Statistics in Planning Laboratory and Fleet Test Work 339
Deaths 226, 490, 649, 882
"Deltic" High-Speed Marine Diesel Engine (Reprint) 727
Development of Attack Aircraft Carriers, by S. R. Heller, Jr. 515
Dew Point of Combustion Gases, Influence of Sulphuric Acid On, by George A. Fearn Jr. and William Tessin 753
Diffraction Grating as Applied to the Harnessing of Wave Energy From the Sea, by J. R. Goodykoontz 865
Discussions:
"Structural Behavior in Ships" by E. A. Wright and John Vasta, by J. A. Brown 471
"Officer-Civilian Relationships in Semi-Military Technical Organizations" by J. K. Fordyce
By J. M. Farrin 475
By R. E. W. Harrison 477
"Wartime Logistics Aboard Ship" by Carl J. Lamb, May 1952, Discussion by Walter J. Buckley and Daniel Mahoney, Author's reply to 218
"Unsteady State Heat Conduction" by George Leppert, Aug. 1952, by G. M. Dusinberre 219
"Accent on Access—The Ins and Outs of Machinery Spaces" J. A. Brown, by John R. Wright 875
"The Phenomenon of Static Electricity," Carl J. Lamb, by Loren G. Maxwell 878
"Worship of the BMEP and the New MAN Engine," P. H. Schweitzer, by J. Barraja-Frauenfelder 878
Economic Speed of Warships and Patrol Vessels, by K. M. Heggstad 209
Effect of Radial-Pitch Variation on the Performance of a Marine Propeller (Reprint) 732

PAGE

Electronics For Defense And Industry (Reprint) 456
Emerick, Robert H., The Life of a Bushipe Engineer 447
Engineer, Bushipe, Life of a, by Robert H. Emerick 447
Engineering, Marine, Technical Progress in (Reprint) 461
Engineering Duty Only, Origin of, by R. E. Bassler, CEC, USN (Ret.) 771
Ewan, Thomas K., Research and Development for the Security of America, A Joint Endeavor Between the Military and the Civil Institutions 125
Farrin, J. M., Discussion of "Officer-Civilian Relationships in Semi-Military Technical Organizations" by J. M. Fordyce 475
Fearn, George A., Jr. and William Tessin, Influence of Sulphuric Acid Upon the Dew Point of Combustion Gases 753
Fire Protection in Passenger Ships (Reprint) 100
Fordyce, J. H., Officer-Civilian Relationships in Semi-Military Technical Organizations 9
Fuller, W. E., Radical Departure in the Conventional Tugboat Design, and a New Use for Cycloidal Propulsion 630
Fundamentals of the Boundary Layer Theory (Reprint) 625
Future of Automatic Machinery (Reprint) 440
Future of Plastics in Engineering (Reprint) 277
Future Petroleum Demands, Meeting (Reprint) 360
G-2 Type Naval Gas Turbine (Reprint) 538
Galtung, Engel, Study of Causes of Surface Damages on Ship Propellers 389
General Considerations in Naval Shipboard Power Machinery Development, by Irwin E. Jackson, Jr. 287
Goodykoontz, J. H., The Internal Reaction Engine 97
Diffraction Grating as Applied to the Harnessing of the Wave Energy From the Sea 865
Granet, Irving, Calculation of Radiant Heat Absorption in a Furnace 319
Hack, John A., Captain O'Shaugnessy—Business Man in Blue 109
Harrison, R. E. W., Production Engineering Communist Potential 243
Scheduling of Work in the Shops 451
Discussion of "Officer-Civilian Relationships in Semi-Military Technical Organizations," by J. M. Fordyce 477
Technology of the Fifth Wheel 671
Recurring Machine Tool Procurement-Crises in U. S. Operational Management 675
Heat Flow, Transient, Stable Numerical Solution For, by George Leppert 741
Heggstad, K. M., Economic Speed of Warships and Patrol Vessels 209
Heller, S. R., Jr., Development of Attack Aircraft Carriers 515
High-Pressure Instrumentation (Reprint) 253

PAGE

How to Control Marine Corrosion (Reprint) 856
Influence of Sulphuric Acid Upon the Dew Point of Combustion Gases, by George A. Fearn, Jr. and William Tessin 753
Interindustry Statistical Techniques, Some Uses of, by H. Burke Horton 581
Internal Reaction Engine, by J. H. Goodykoontz 97
Is Standardization a Science? by Ellsworth F. Seaman 32
Jackson, Irwin E., Jr., General Considerations in Naval Shipboard Power Machinery Development 287
Jasper, N. J., Ship Vibration Problems 23
Kabele, Clarence, Transistors 707
Lamb, Carl J. and C. R. Rowe, Consideration of the Phenomenon of Static Electricity 425
Large Dry Docks (Reprint) 832
Leppert, George, Stable Numerical Solution For Transient Heat Flow 741
Life of a Buships Engineer, by Robert H. Emerick 447
Low-Hydrogen Welding Rods (Reprint) 764
Lubrication, New Ideas on (Reprint) 625
McKenzie, Allan M., and H. J. Stark, Progress on Naval Use of Reinforced Plastic Piping 57
McShane, Ralph E., Testing Compartments for Tightness By Use of Compressed Air 145
Machine Tool Procurement — Crises in U. S. Operational Management, Recurring, by R. E. W. Harrison 675
Magdeburger, E. C., Resistance of Water to Ships' Motion, Translation from Russian 118
Marine Engineering, Technical Progress in (Reprint) 461
Maxwell, Loren G., Discussion of "The Phenomenon of Static Electricity," Carl J. Lamb 876
Meeting Future Petroleum Demands (Reprint) 360
Membership Changes 227, 491, 650, 883
New Ideas on Lubrication (Reprint) 625
Noise of Ventilating Fans (Reprint) 605
Obituaries
Montgomery Meigs Taylor 214
Samuel Shelburn Robison 216
Charles Lees Brand 486
Homer Lenoir Ferguson 489
Observations on Experience With Welded Ships (Reprint) 71
Officer-Civilian Relationships in Semi-Military Technical Organizations, by J. K. Fordyce 9
"Officer-Cvilian Relationships in Semi-Military Technical Organizations," by J. K. Fordyce, Discussion by J. M. Farrin 475

PAGE

Oil Fired Boilers, Vanadium Ash Problems in, by Frank E. Clarke 253
Origin of Engineering Duty Only, by R. E. Bassler, Captain, CEC, USN, (Ret.) 771
Patents on Quieting Reduction Gears, Reviews of Interesting, By John W. Sawyer 791
Petroleum Demands, Future, Meeting (Reprint) 360
Plastic Piping, Reinforced, Progress on Naval Use of, by Allan M. McKenzie and H. J. Stark 57
Power Machinery Development, Naval Shipboard, General Considerations in, by Irwin E. Jackson, Jr. 287
Principles of Technical Control in Metallurgical Manufacture (Reprint) 563
Production Engineering Communist Potential, by R. E. W. Harrison 243
Progress on Naval Use of Reinforced Plastic Piping, by Allan M. McKenzie and H. J. Stark 57
Progress, Technical, in Shipbuilding During 1952 (Reprint) 353
Propeller Diameter, Preliminary, Relationship For, by Evers Burtner 545
Propellers, Ship, Study of Causes of Surface Damages on, by Engel Galtung 389
Radiant Heat Absorption in a Furnace, Calculation, by Irving Granet 319
Radical Departure in the Conventional Tugboat Design, and a New Use for Cycloidal Propulsion, by W. E. Fuller 630
Recurring Machine Tool Procuremen — Crises in U. S. Operational Management, by R. E. W. Harrison 675
Reduction Gears, Quieting, Review of Interesting Patents, on, by John W. Sawyer 791
Regulators For the Marine Industry, (Reprint) 822
Reheat Turbines Are Shouldering The Increased Electrical Load (Reprint) 203
Relationship For Preliminary Propeller Diameter, by Evers Burtner 545
Relationships, Officer-Civilian, in Semi-Milittary Technical Organizations, by J. H. Fordyce 9
"Replicas of Submerged Surfaces," Comments on, by John W. Sawyer 821
Research and Development For The Security of America, A Joint Endeavor Between the Military and the Civilian Institutions, by Thomas K. Ewan 125
Resistance of Water to Ships' Motion, Translated from Russian by E. C. Magdeburger 118
Review of Interesting Patents on Quieting Reduction Gears, by John W. Sawyer 791
Review of Surface Finish Literature (Reprint) 400
Robison, Samuel Shelburn, Obituary 216
Rowe, C. R. and Carl J. Lamb; Consideration of the Phenomenon of Static Electricity 425

PAGE

Sawyer, John W., Comments on "Replicas of Submerged Surfaces 821
Review of Interesting Patents on Quieting Reduction Gears 791
Scheduling of Work in the Shops, by R. E. W. Harrison 451
Schweitzer, P. H., Worship of the BMEP and the New MAN Engine ... 620
Seaman, Ellsworth; Is Standardization a Science 32
Secretary's Notes 3, 237, 505, 657
Servo Mechanisms in Aircraft (Reprint) 131
Shipbuilding, Technical Progress in, During 1952 (Reprint) 353
Ship Vibration Problems, by N. J. Jasper 23
Shops, Work in, Scheduling of, by R. E. W. Harrison 451
Some Uses of Interindustry Statistical Techniques, by H. Burke Horton 581
So You Want to Be An Inventor, (Reprint) 531
Speed, Economic, of Warships and Patrol Vessels, by K. M. Heggstad ... 209
Stable Numerical Solution For Transient Heat Flow, by George Leppert 741
Stark, H. J. and Allan M. McKenzie, Progress on Naval Use of Reinforced Plastic Piping 57
Static Electricity, Consideration of the Phenomenon of, by Carl J. Lamb and C. R. Rowe 425
Statistics, Use of in Planning Laboratory and Fleet Test Work, by Besse B. Day 339
Steam Pipe Materials For Advanced Steam Conditions (Reprint) 48
Stone, Dr. Gerald Paul; Training Shop Supervisors in Production Control 613
Storage Batteries for Diesel Engine Cranking (Reprint) 175
"Structural Behavior In Ships" by E. A. Wright and John Vesta. Discussion, by J. A. Brown 471
Study of Causes of Surface Damages on Ship Propellers, by Engel Galtung 389
Taylor, Montgomery Meigs, Obituary 214
Technical Progress in Shipbuilding During 1952 (Reprint) 353
Technology of the Fifth Wheel, by R. E. W. Harrison 671
Tessin, William, and George A. Fearn, Jr., Influence of Sulphuric Acid Upon the Dew Point of Combustion Gases 753
Testing Compartments for Tightness by Use of Compressed Air, by Ralph E. McShane 145
Titanium, A Survey (Reprint) 549
Training Shop Supervisors in Production Control, by Dr. Gerald Paul Stone 613
Transistors, by Clarence Kabele 707
Turbine-Generator Rotors, Balancing (Reprint) 868
Use of Statistics in Planning Laboratory and Fleet Test Work, by Besse B. Day 339

PAGE

Vanadium Ash Problems in Oil Fired Boilers, by Frank E. Clarke 253
Vasta, John, and E. A. Wright, Reply to Discussion by J. A. Brown of "Structural Behavior of Ships" 474
Vibration Problems, Ship, by N. J. Jasper 23
Worship of the BMEP and the New MAN Engine, by P. H. Schweizer 620
Wright, E. A. and John Vasta; Reply to Discussion by J. A. Brown of "Strucural Behavior of Ships" 474
Wright, John R.: Accent on Access — The "Ins" and "Outs" of Machinery Spaces 875
Discussion of "Accent on Access—The Ins and Outs of Machinery Spaces," by J. A. Brown 875